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PATENT
07/352,530

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Before the Examiner:
R. A. Fabbio et al : A. Jankus
Serial No.: 07/352,530 : Group Art Unit: 2301
Filed: May 15, 1989 : Intellectual Property
Title: OBJECT DATABASE-DRIVEN : Law Department
SHELL FOR A DATA PROCESSING : International Business
SYSTEM : Machines Corporation
June 26, 1992 : 11400 Burnet Road
: Austin, Texas 78758

TRANSMITTAL OF FORMAL DRAWINGS

Honorable Commissioner of Patents and Trademarks
Washington, D. C. 20231

Sir:

Attached are the formal drawings (18) for the
above-identified application.

Respectfully submitted,

R. Carwell

Robert M. Carwell
Attorney for Applicants
Registration No. 28,499
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RMC/bar

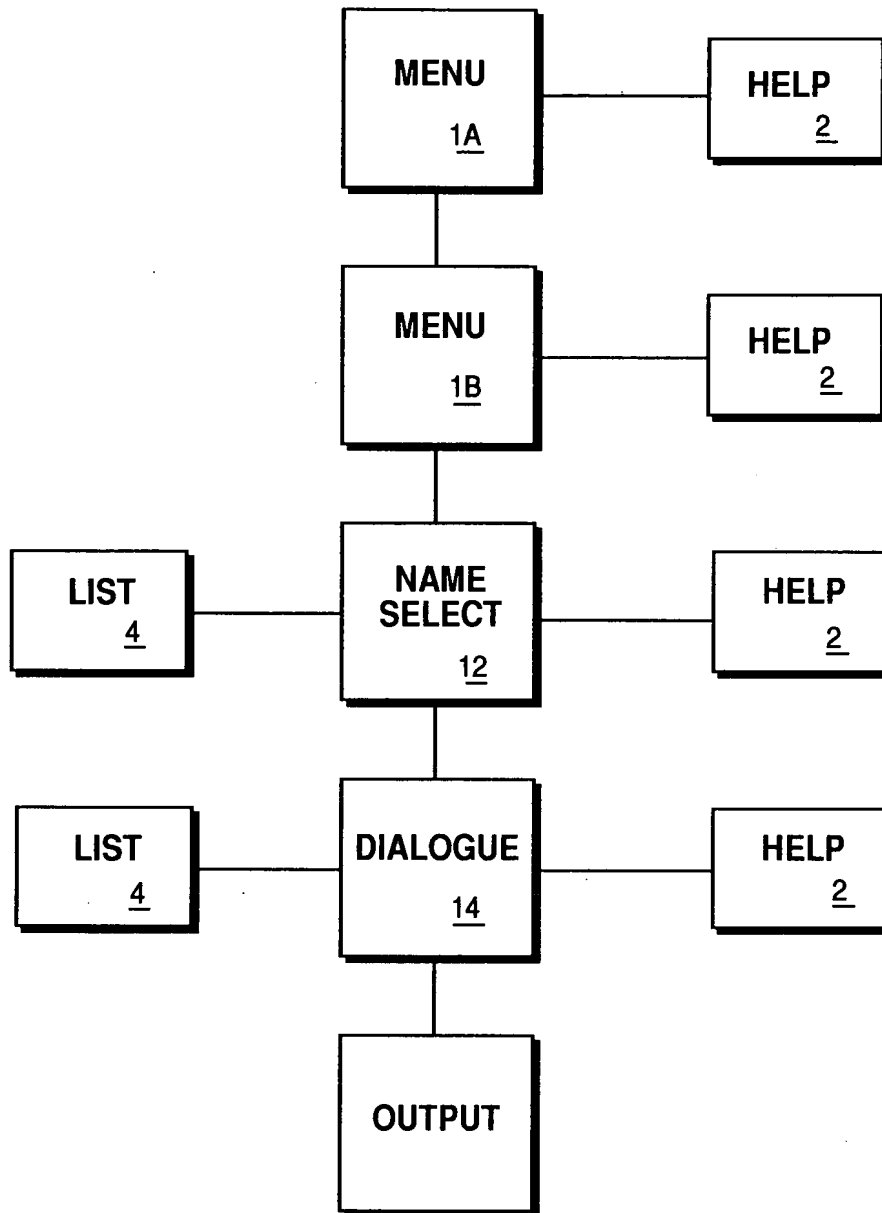


FIG. 1A

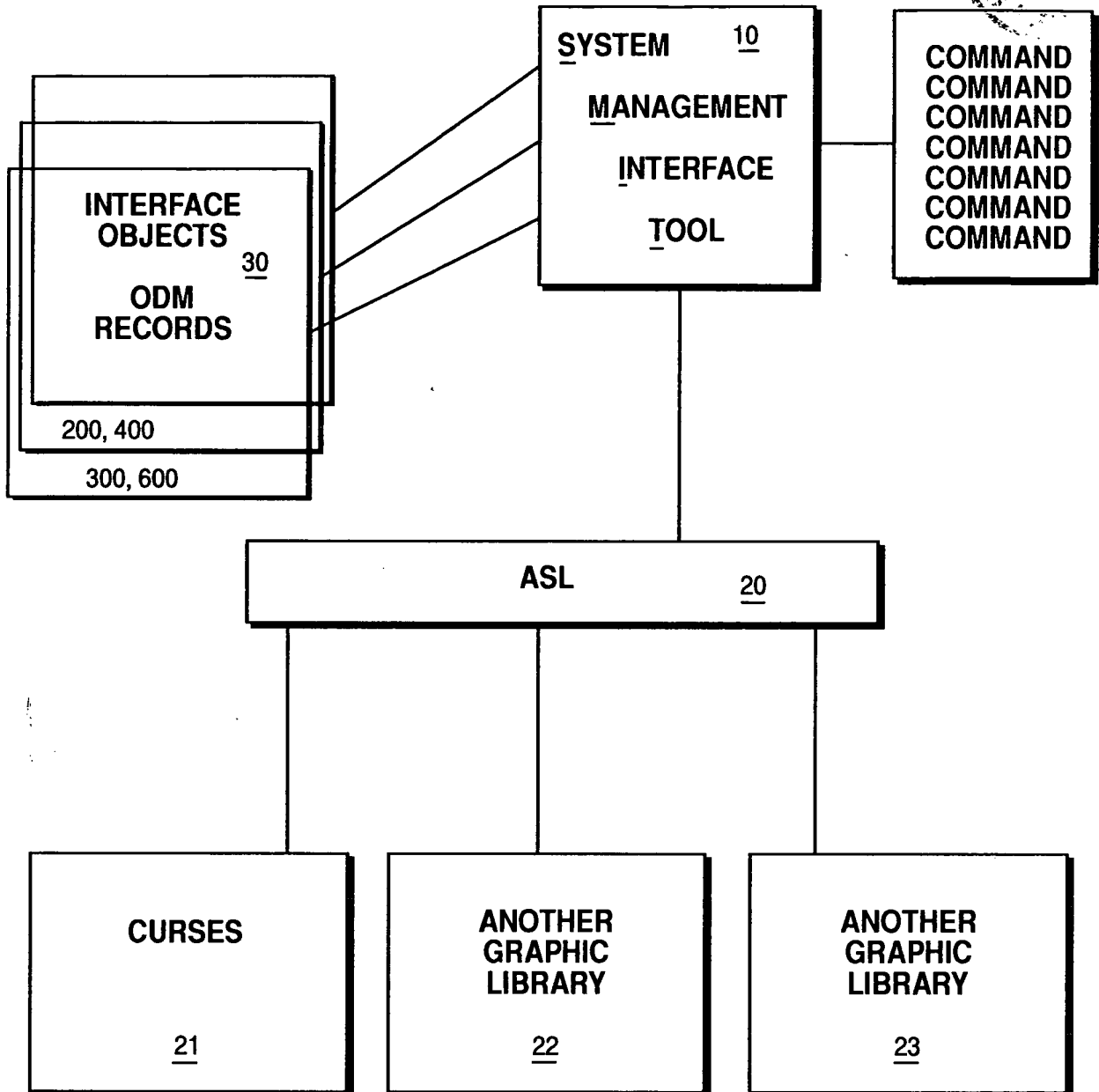


FIG. 1B



S 200

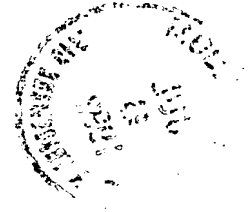
SMIT MENU OBJECT CLASS (sm_menu_opt)

Each item on a menu in the SMIT tree corresponds to a menu object. The "menu" appearing on the screen is a set of these objects.

```
    struct sm_menu_opt {  
202 ~ *id;           /* symbolic key for object          */  
203 ~ *id_seq_num;  /* seq # for recs in this set     */  
204 ~ *next_id;     /* symbolic key for next object   */  
205 ~ *text;        /* describes task                  */  
206 ~ *text_msg_file; /* Message Facilities catalogue name */  
207 ~ text_msg_set; /* Message Facilities set id for name */  
208 ~ text_msg_id;  /* Message Facilities message id for name */  
209 ~ next_type;    /* type of next action if this item picked */  
210 ~ alias;        /* is/is not fast path ptr to another screen */  
211 ~ help_msg_id   /* help system id/key for help text */  
    };
```

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FIG. 2



300

SMIT DIALOGUE OBJECT CLASS (sm_cmd_opt)

Each dialogue (leaf) in the SMIT tree has an array of one or more options. Each option corresponds to a fields (parameter, option, or attributes) of the command that the dialogue performs.

```
    struct sm_cmd_opt {
302 ~*id;                /* symbolic key for object */
303 ~*id_seq_num;        /* seq # for objects in this set */
304 ~*disc_field_name;   /* output hdr from cmd_to_discover */
305 ~*name;              /* field name */
306 ~*name_msg_file;     /* Message Facilities catalogue for name */
307 ~name_msg_set;       /* Message Facilities set id for name */
308 ~name_msg_id;        /* Message Facilities message id for name */
309 ~op_type;            /* method used to manage this field */
321 ~entry_type;         /* type of entry allowed in this field */
322 ~entry_size;         /* width of entry allowed in this field */
310 ~required;          /* is/is not reqd. for each exec of cmd */
311 ~*prefix;            /* AIX cmd flag for this option */
313 ~cmd_to_list_mode;   /* amount of listed item to use */
312 ~*cmd_to_list;       /* AIX cmd string for list of candidates */
323 ~cmd_to_list_postfix; /* where to get cmd postfix, if any */
324 ~multi_select;       /* multiple select from list is/is not valid */
314 ~value_index;        /* zero-origin index of value string, if ring */
315 ~*disp_values;       /* current, default or allowed values */
316 ~*values_msg_file;   /* Message Facilities catalogue for values */
317 ~values_msg_set;     /* Message Facilities set id for values */
318 ~values_msg_id;      /* Message Facilities message id for values */
319 ~*aix_values;        /* current, default or allowed values */
320 ~help_msg_id;        /* help system id for help text */
325 ~*cmd_to_validate   /* AIX cmd string for validation */
    };
```

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FIG. 3



400

SMIT DIALOGUE HEADER OBJECT CLASS (sm_cmd_hdr)

There is a header for each dialogue in the SMIT tree.

```
struct sm_cmd_hdr {
402 ~*id; /* symbolic for object */
403 ~*option_id; /* pointer to dialogue object */
405 ~*has_name_select; /* is/is not preceded by a name selector */
404 ~*name; /* descriptive command name (task) */
406 ~*name_msg_file; /* Message Facilities catalogue file */
407 ~name_msg_set; /* Message Facilities set id for name field */
410 ~name_msg_id; /* Message Facilities id for name field */
408 ~*cmd_to_exec; /* AIX command string to execute */
409 ~ask; /* assure that user wants to execute cmd */
413 sexec_mode; /* command execution mode */
411 sghost; /* display or go straight to command */
412 s*cmd_to_discover; /* cmd to fill in default/current values */
414 s cmd_to_discover_postfix; /* where to get cmd postfix, if any */
415 sname_size; /* size of name field; default used if = 0 */
416 svalue_size; /* size of value field; default used if = 0 */
417 shelp_msg_id; /* help system id/key for help text */
};
```

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FIG. 4

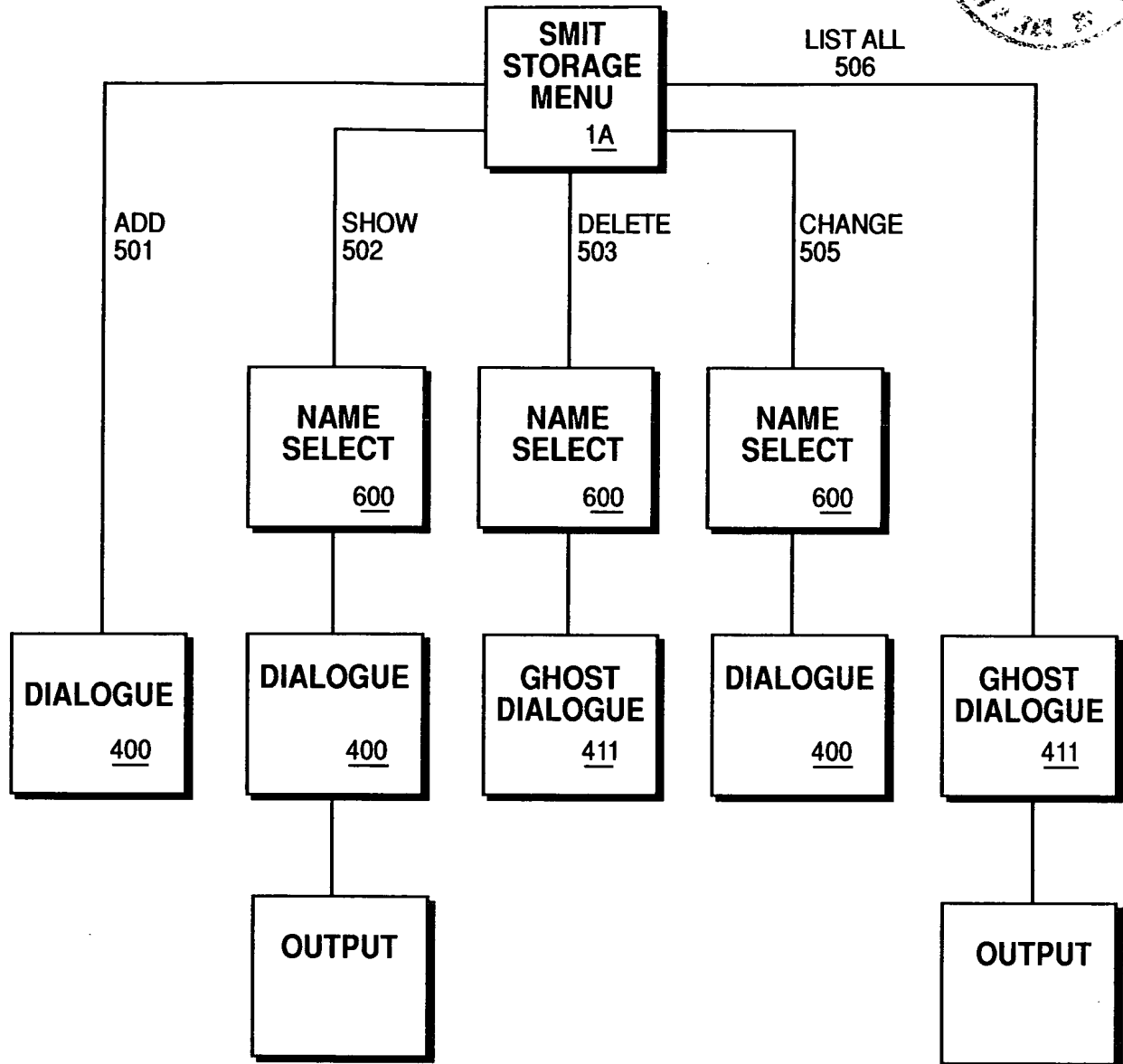


FIG. 5A

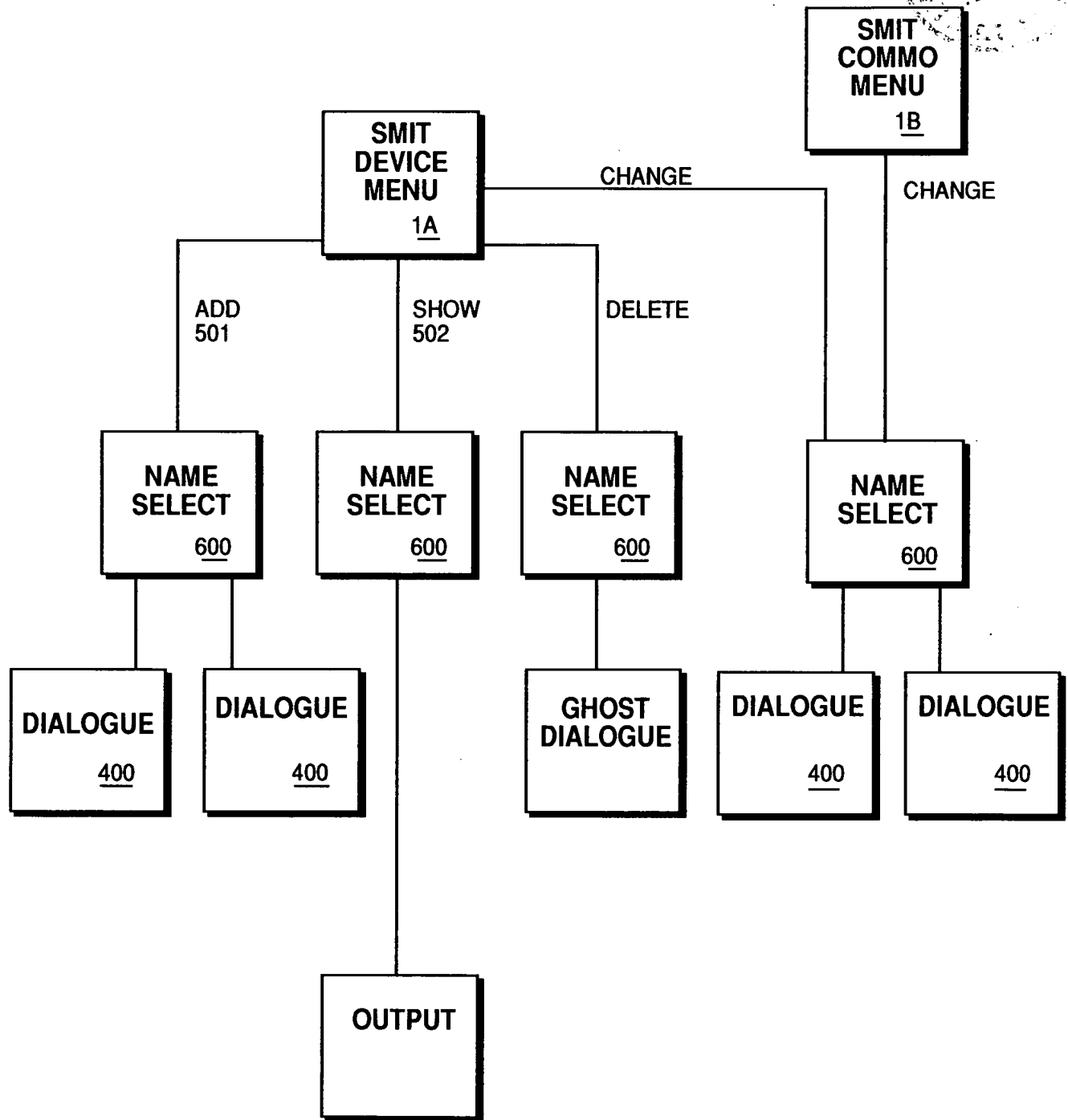


FIG. 5B

5 600

SMIT NAME SELECT HEADER OBJECT CLASS (sm_name_hdr)

A name select header object may, if needed, be created for each dialogue that appears as the terminal node (leaf) in the SMIT application. This header points to one **sm_cmd_opt** object which is used to solicit an instance of the object upon which the subsequent dialogue will act. (See above for specification of that object.)

```
    struct sm_name_hdr {  
602 ~*id;           /* symbolic key for object */  
603 ~*next_id;      /* symbolic key for next cmd hdr object */  
605 ~*option_id     /* symbolic key for name selector cmd opt */  
604 ~*name;         /*  
606 ~*name_msg_file; /* Message Facilities catalogue name */  
607 ~ name_msg_set; /* Message Facilities set id for name */  
608 ~ name_msg_id;  /* Message Facilities message id for name */  
609 ~ type;         /* method to process name selected */  
610 ~ ghost;        /* display or go straight to listing */  
614 ~*cmd_to_classify; /* AIX cmd to classify name */  
611 ~ help_msg_id;  /* help system id/key for help text */  
    };
```

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FIG. 6

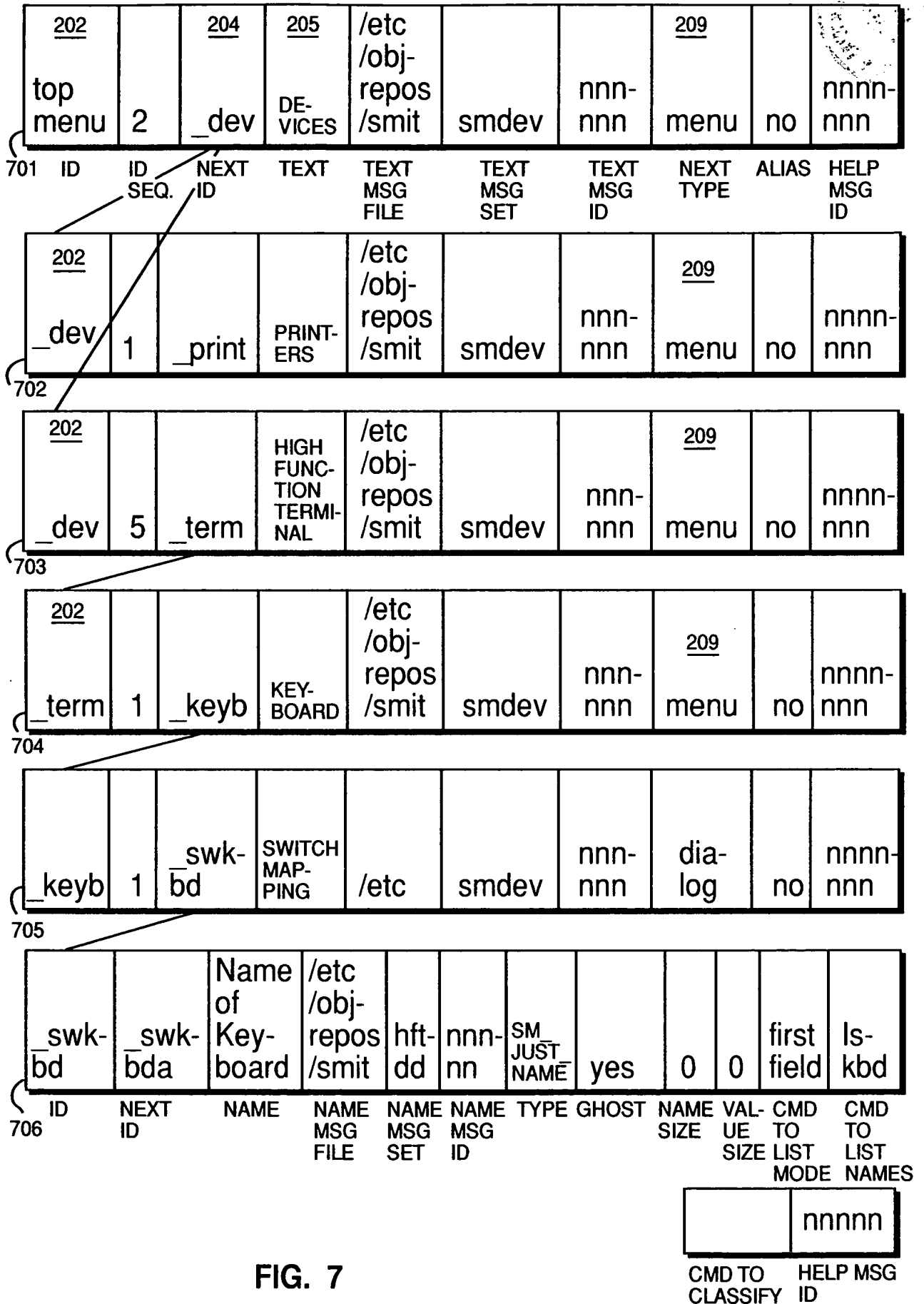


FIG. 7

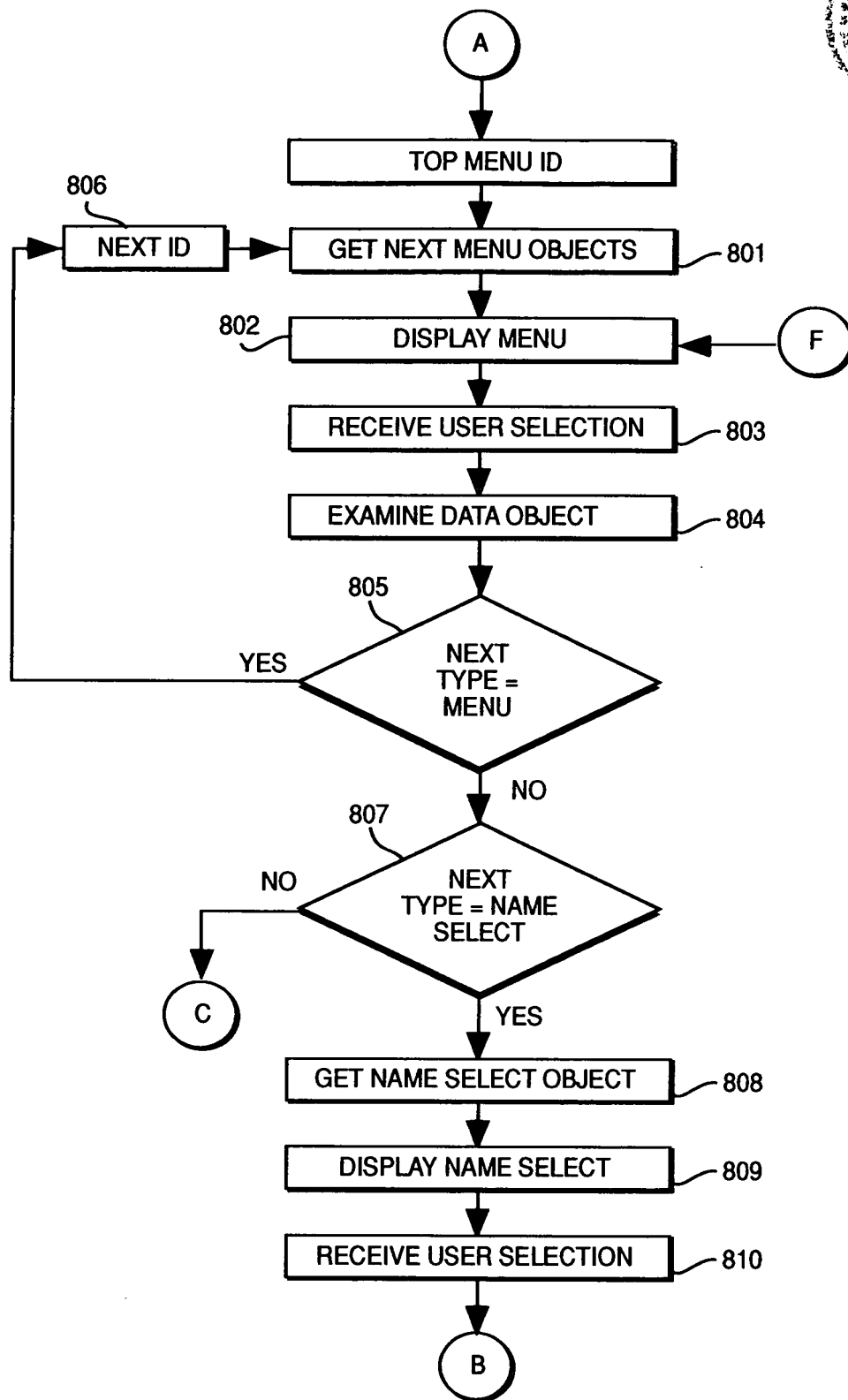


FIG. 8A

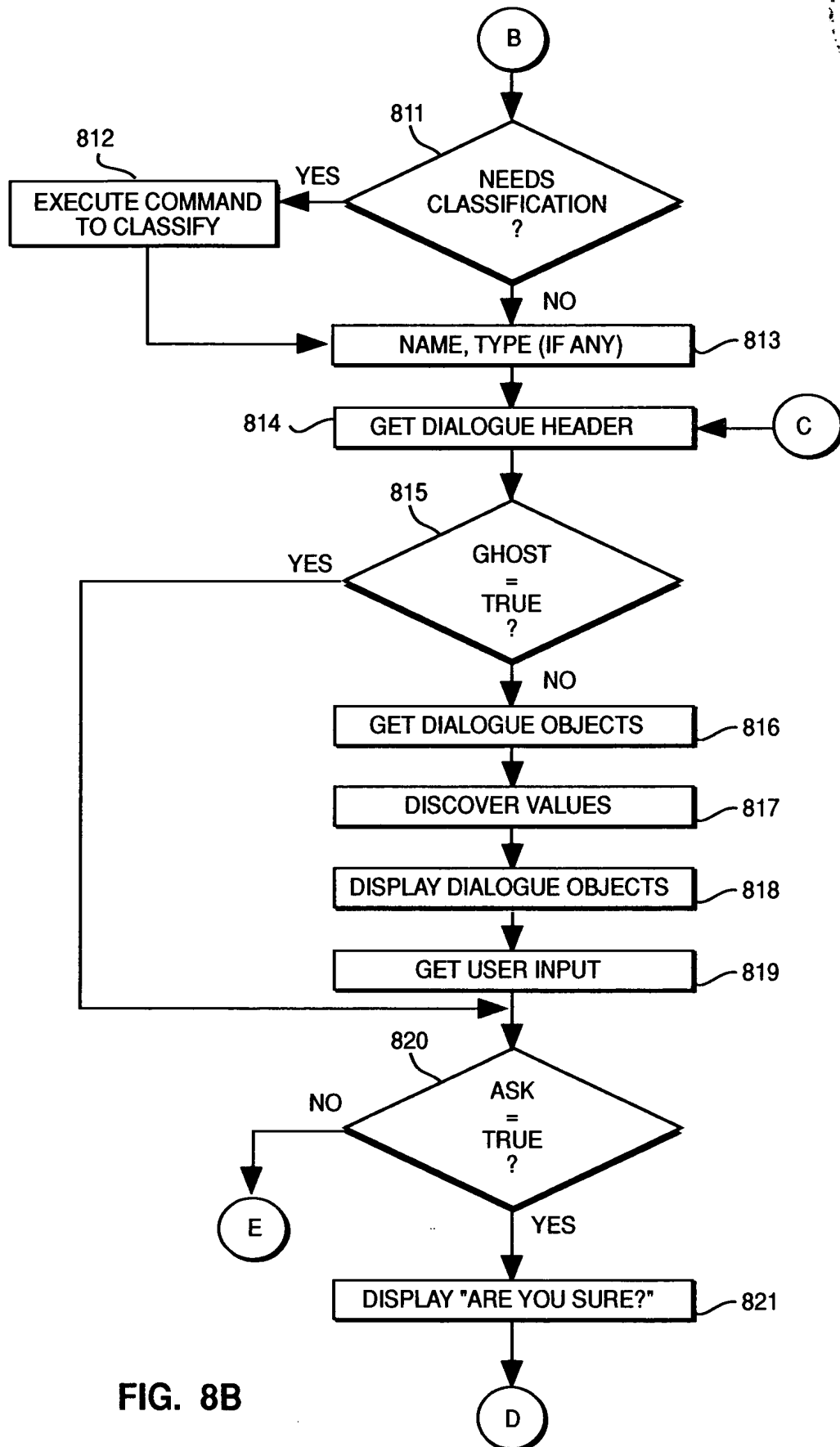


FIG. 8B

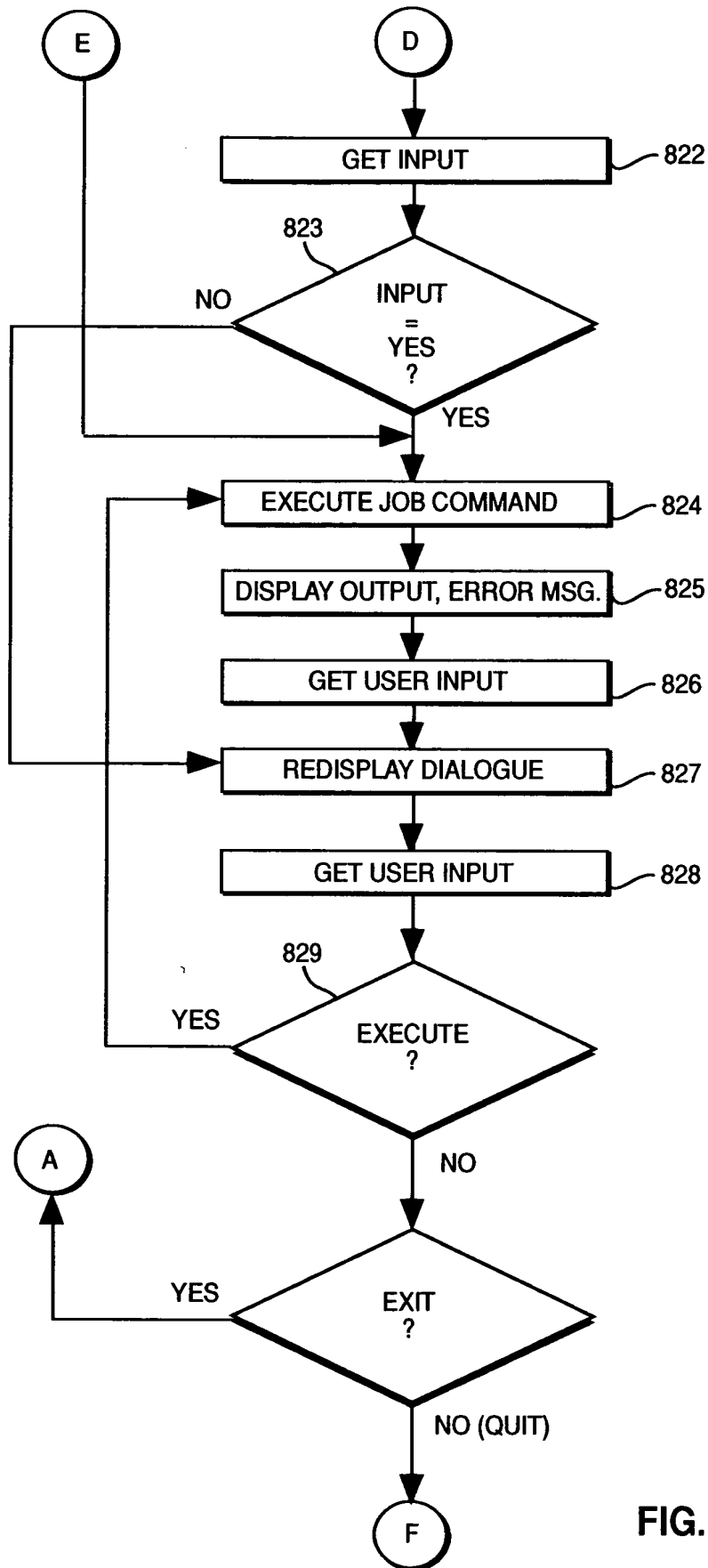


FIG. 8C

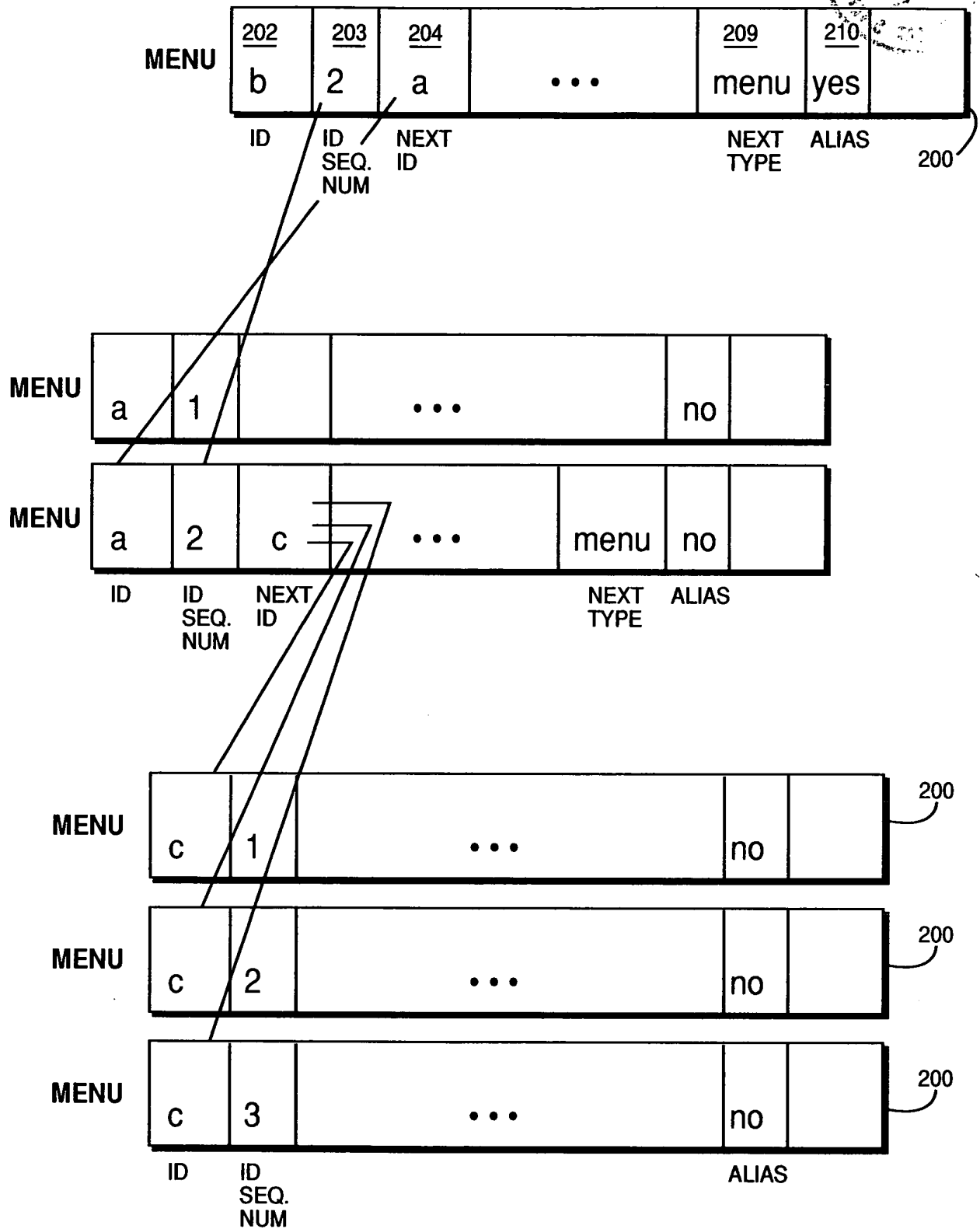


FIG. 9A

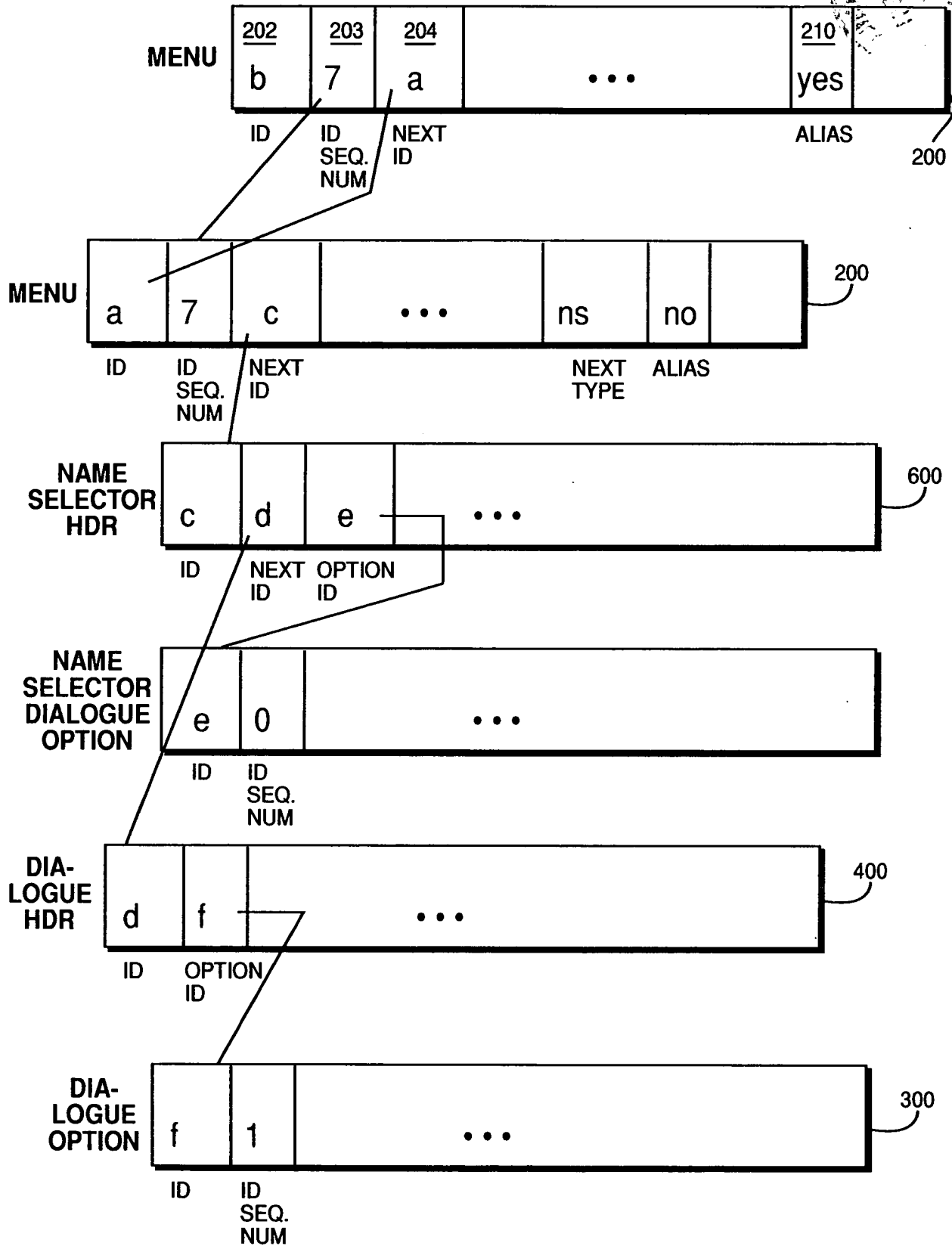


FIG. 9B

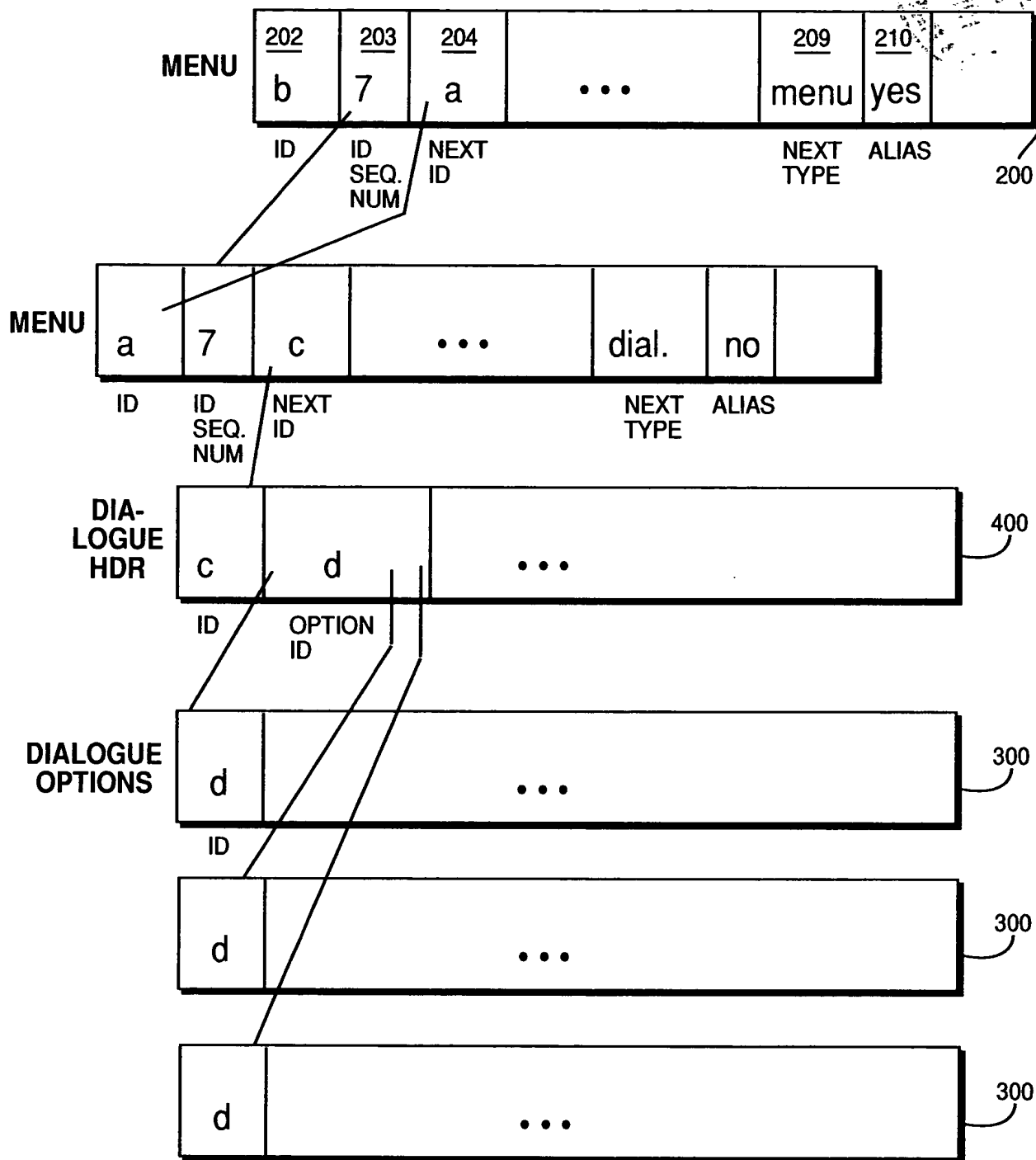


FIG. 9C

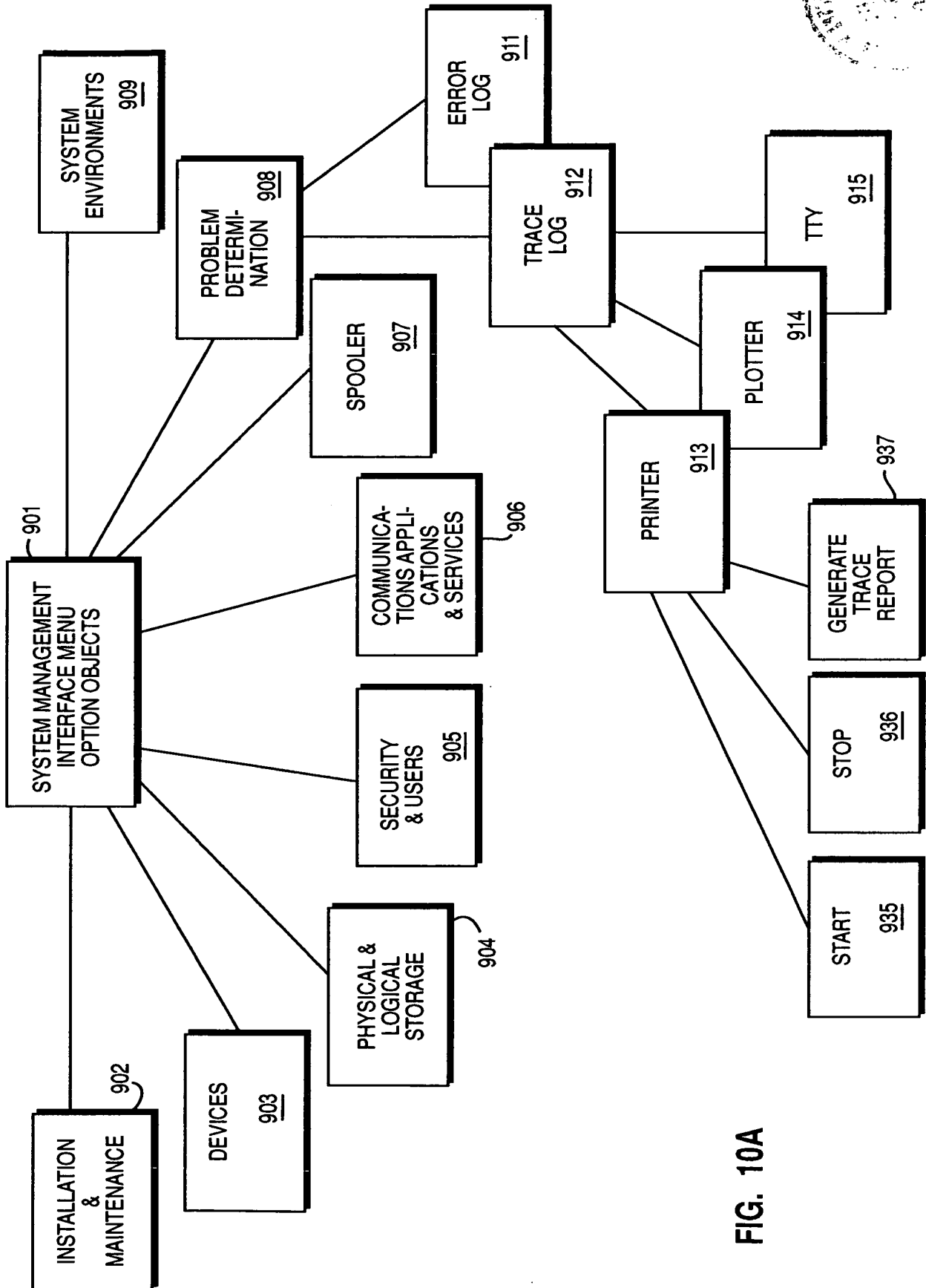


FIG. 10A

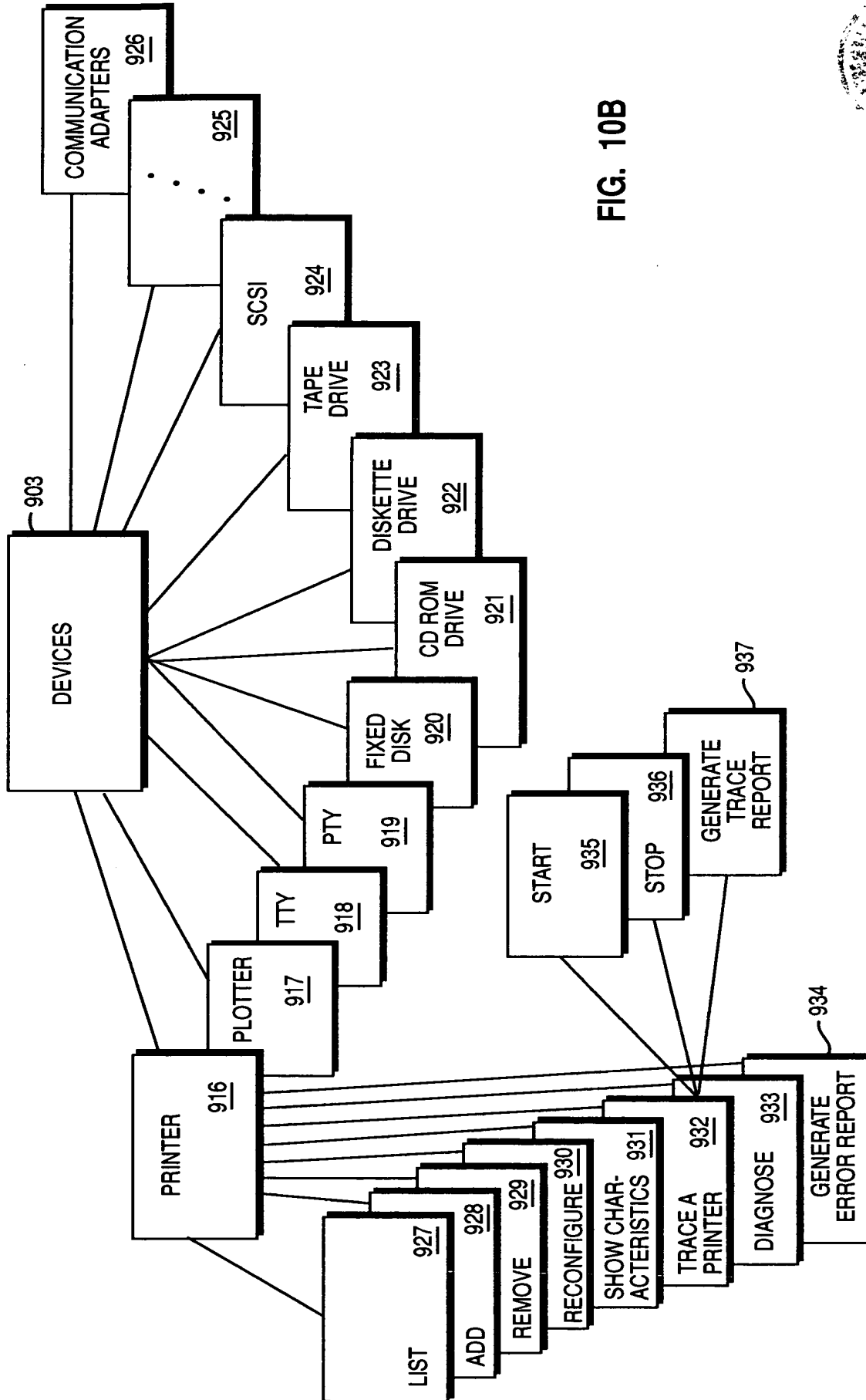


FIG. 10B

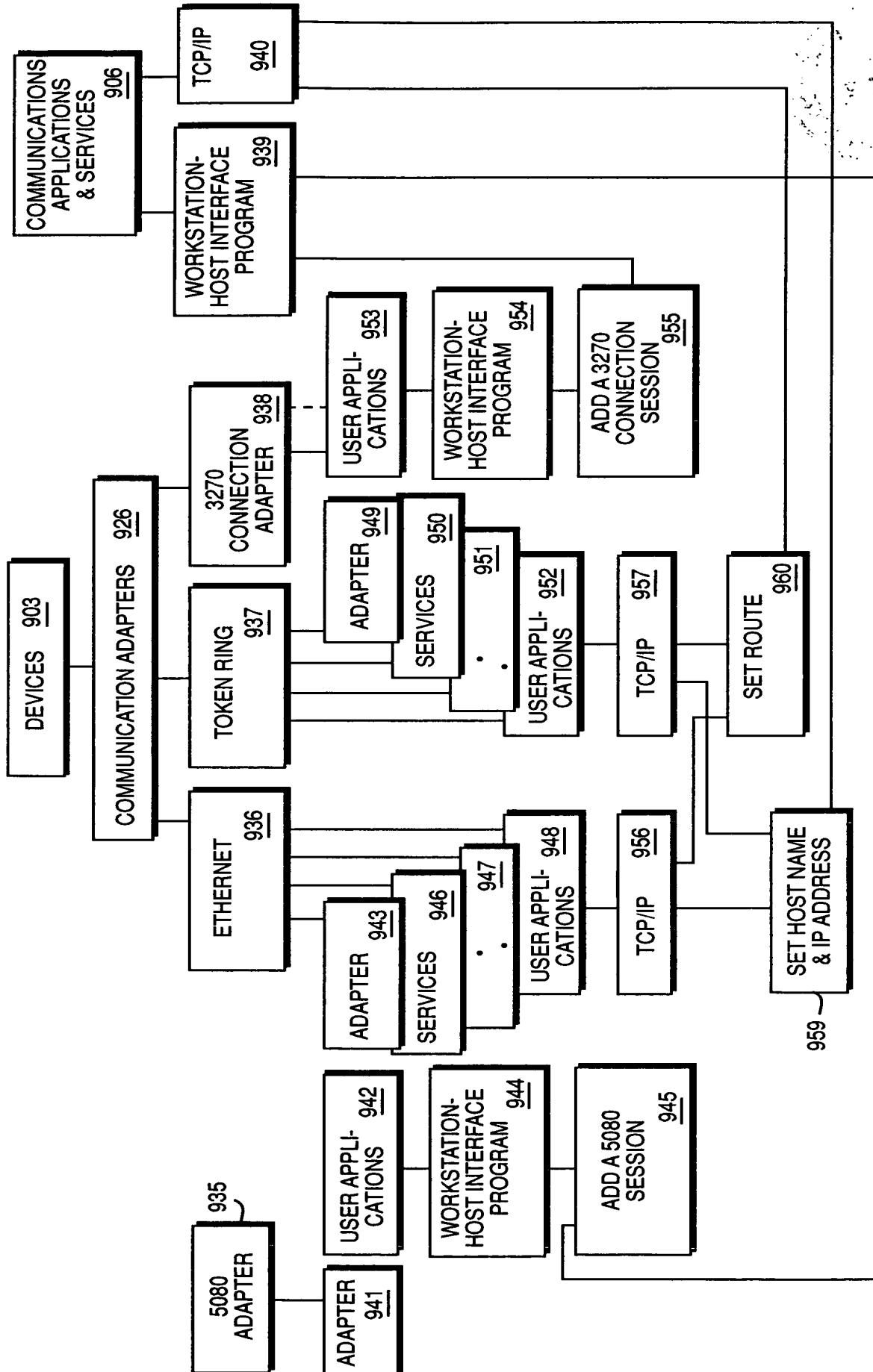


FIG. 10C